

THREE RIVERS COMMUNITY COLLEGE  
**C**ONSTRUCTION **G**RAPHICS · ARC K135/L & LAB  
 (Monday 1 – 5:20pm & Thursday 5:20 – 9:50pm)

Professor: Brian Schuch, LEED AP, email BrianSchuch@gmail.com  
 Chuck Canavan, AIA, Canavanc@aol.com

Course Objective: To prepare Architectural, Civil and Construction Technology students with a working knowledge of the fundamental concepts of construction graphics as a means to convey “design intent” and “constructability” to the construction industry, through the execution of actual construction drawings.

Method: Lectures, Demonstrations, Class Discussion and Studio Practice.

Text: Construction Graphics, Keith A. Bisharat

Pre-requisites: None Co-requisites: K 135L

COURSE TOPICS/CONTENT

<u>Week 01</u> 08/27	An Overview <i>History, Participants, Projects, Measurement</i>	<u>Week 09</u> 10/22	Doors & Windows <i>Conventions, Details &amp; Methods</i>
<u>Week 02</u> 09/03	Design Drawing <i>Sketches, Ortho, Descriptive Geometry</i>	<u>Week 10</u> 10/29	Roofing Systems <i>Conventions, Details &amp; Methods</i>
<u>Week 03</u> 09/10	Construction Drawing <i>Page Layout, Descriptive Geometry</i>	<u>Week 11</u> 11/05	Interior Construction <i>Conventions, Details &amp; Methods</i>
<u>Week 04</u> 09/17	Site Construction Drawing <i>Site Plan Data, Grading, Structures</i>	<u>Week 12</u> 11/12	Mechanical Systems <i>Conventions, Details &amp; Methods</i>
<u>Week 05</u> 09/24	Foundation Systems <i>Plans, Sections Details, Methods</i>	<u>Week 13</u> 11/19	No Classes <i>Thanksgiving</i>
<u>Week 06</u> 10/01	Framing Systems <i>Conventions, Details &amp; Methods</i>	<u>Week 14</u> 11/26	Electrical systems <i>Conventions, Details &amp; Methods</i>
<u>Week 07</u> 10/08	Framing Systems Cont'd <i>Conventions, Details &amp; Methods</i>	<u>Week 15</u> 12/03	Fabrication Drawings <i>Conventions, Details &amp; Methods</i>
<u>Week 08</u> 10/15	Cladding Systems <i>Conventions, Details &amp; Methods</i>	<u>Week 16</u> 12/10	Final Drawing Sets <i>Final Drawing Packages Due</i>

**Required Materials:**

- 12" role of white trace
- 12" architect's scale
- 12" 45° triangle
- one box of drafting dots (tape)
- one 0.5mm drafting pencil
- 0.5mm H lead
- 0.5mm 2H lead
- one compass
- erasing shield
- soft stick eraser

**Optional Materials:**

- 6" 45° triangle
- circle template
- ¼" scale floor plan template
- adjustable triangle
- drawing broom
- 24" x 36" Drafting Top